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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/574,036	03/27/2006	Michael Roger Czerniak	M03B133	9405		
20411 THE BOC GRO	7590 03/06/200 DUP, INC.	8	EXAMINER			
575 MOUNTA	IN AVENUE		HEPPERLE, STEPHEN M			
MUKKAY HIL	L, NJ 07974-2064		ART UNIT	PAPER NUMBER		
			3753			
			MAIL DATE	DELIVERY MODE		
			03/06/2008	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
Office Action Commence	10/574,036	CZERNIAK, MICHAEL ROGER			
Office Action Summary	Examiner	Art Unit			
	Stephen M. Hepperle	3753			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence add	ress		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim 11 apply and will expire SIX (6) MONTHS from 12 cause the application to become ABANDONEI	l. ely filed the mailling date of this com O (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on					
	-· action is non-final.				
<i>,</i> —					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
dissect in assertation with the practice and in E.	x parte quayre, 1000 0.D. 11, 10	0 0.0. 210.			
Disposition of Claims					
4) ☐ Claim(s) <u>1-26</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) <u>1,3-10,13,14,16-23 and 26</u> is/are rejected to claim(s) <u>2,11,12,15,24 and 25</u> is/are objected to claim(s) are subject to restriction and/or	cted.				
Application Papers					
9) ☐ The specification is objected to by the Examiner 10) ☑ The drawing(s) filed on 27 March 2006 is/are: a Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correction 11) ☐ The oath or declaration is objected to by the Examiner	a) accepted or b) objected to drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFF			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No d in this National S	Stage		
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 3/27/06.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te			

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3-5, 9, 10, 13, 14, 16-18, 22, 23, and 26 are rejected under 35 U.S.C. 102(b) as being anticipated by Campbell et al. (6,461,436). Campbell is the US patent that issued from the priority application of WO 03/033762, cited by applicant. Campbell shows three gas lines 6, 9, and at valve 7, feeding chamber 10. In Fig. 4, lines 26, 36 route gas around the chamber in an isolated fashion to exhaust pumps 20 or 30. The exhaust pumps are inherently seen as generating at least a mild vacuum to perform their exhaust function, and are thus seen as vacuum pumps. Note second valve system including valves 24, 34 (claim 5). Regarding claims 9-10, the precursor gases that are not diverted to the chamber are routed to lines 26 and 36 and collected, which means that there can be flow in the lines when purge gas from a third line is directed to the chamber. Claim 13 is seen as met by shower head 18. The method of claim 25 is seen as met by the apparatus.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 6-8 and 19-21 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Campbell et al. In a sophisticated system like Campbell, it seems inherent that the valves would have a controller that controls the degree of valve opening (including fully open and fully closed), and would control how long each valve is open (to assure sufficient gas for each task), and to provide appropriate delays to avoid mixing of gas. Alternatively, it would have been obvious to have a controller doing the above functions in order to perform the necessary functions in the chamber.

Claims 2, 11-12, 15, and 24-25 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Raaijmakers et al. shows another system with two exhaust pumps.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen M. Hepperle whose telephone number is 571-272-4913. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Huson can be reached on 571-272-4887. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Stephen M. Hepperle/ Primary Examiner, Art Unit 3753